

Title (en)
SYSTEM AND METHOD FOR SANITIZING EGGS

Title (de)
SYSTEM UND VERFAHREN ZUM DESINFIZIEREN VON EIERN

Title (fr)
SYSTÈME ET PROCÉDÉ DE DÉSINFECTION D'OEUF

Publication
EP 3726967 A4 20210317 (EN)

Application
EP 18892068 A 20181221

Priority
• US 201762609645 P 20171222
• US 201862623079 P 20180129
• US 2018067265 W 20181221

Abstract (en)
[origin: WO2019126732A2] This disclosure relates to techniques to sanitize eggs. More specifically to sanitizing eggs in a manner such that damage to the cuticle of the egg during sanitization is reduced or eliminated. A method includes the activation of photoactivated sanitizing agent with an appropriate wavelength of light at an intensity that eliminates, reduces, or slows the reproduction of, pathogens on the shell of an egg. The photoactivated sanitizing agent can include an exogenously-applied photoactivated sanitizing agent and an optional photosensitizer, which can be activated with light having a wavelength known to activate the exogenously-applied photoactivated sanitizing agent. The photoactivated sanitizing agent can include an endogenously-derived photoactivatable compound. Light in the Soret band can be utilized to activate the endogenously-derived photoactivated sanitizing agent.

IPC 8 full level
A01K 43/00 (2006.01); **A01N 35/00** (2006.01); **A01N 35/02** (2006.01); **A23B 5/10** (2006.01)

CPC (source: EP US)
A23B 5/015 (2013.01 - EP US); **A23B 5/14** (2013.01 - EP US); **A23B 5/18** (2013.01 - EP US); **A23B 5/20** (2013.01 - US)

Citation (search report)
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• [Y] US 2010016208 A1 20100121 - HASAN TAYYABA [US], et al
• [Y] AU 2013202001 A1 20130418 - UNIV EMORY [US], et al
• [Y] REBECCA A CRAIG ET AL: "Photosensitisers - the progression from photodynamic therapy to anti-infective surfaces", EXPERT OPINION ON DRUG DELIVERY, vol. 12, no. 1, 23 September 2014 (2014-09-23), GB, pages 85 - 101, XP055449104, ISSN: 1742-5247, DOI: 10.1517/17425247.2015.962512
• [A] WAINWRIGHT ET AL: "The development of phenothiazinium photosensitisers", PHOTODIAGNOSIS AND PHOTODYNAMIC THERAPY, ELSEVIER, AMSTERDAM, NL, vol. 2, no. 4, 1 December 2005 (2005-12-01), pages 263 - 272, XP027629013, ISSN: 1572-1000, [retrieved on 20051201]
• [A] WAINWRIGHT MARK ET AL: "Photoantimicrobials-are we afraid of the light?", THE LANCET INFECTIOUS DISEASES, ELSEVIER, AMSTERDAM, NL, vol. 17, no. 2, 22 November 2016 (2016-11-22), XP029896871, ISSN: 1473-3099, DOI: 10.1016/S1473-3099(16)30268-7
• See references of WO 2019126732A2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2019126732 A2 20190627; WO 2019126732 A3 20190808; WO 2019126732 A4 20191024; CN 111565565 A 20200821;
EP 3726967 A2 20201028; EP 3726967 A4 20210317; US 2021068410 A1 20210311

DOCDB simple family (application)
US 2018067265 W 20181221; CN 201880083158 A 20181221; EP 18892068 A 20181221; US 201816956906 A 20181221